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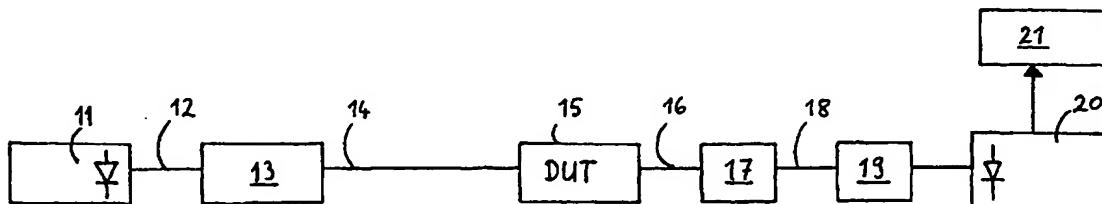
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(54) Title: POLARIZATION CONVERSION UNIT FOR REDUCING POLARIZATION DEPENDENT MEASUREMENT ERRORS



(57) Abstract: A first optical signal with a first polarization state is received by a polarization conversion unit. From this first optical signal, a set of n derived optical signals with n different well-defined polarization states i , $i = 1, \dots, n$, is generated, whereby n is a natural number greater than one. Said n different well-defined polarization states are chosen such that polarization dependent measurement errors of the n derived optical signals cancel each other when averaged irrespective of the first optical signal's polarization state. Therefore, polarization dependent measurement errors can be reduced or even eliminated.

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